

TITLE

TRANSPARENT PARAMAGNETIC POLYMER

ABSTRACT OF THE DISCLOSURE

This invention provides a transparent, paramagnetic polymer
10 composition in which a polymer is complexed with sufficient rare earth ions,
particularly ions selected from ions in the group of elements 64 – 69, to
provide a polymer with a magnetic mass susceptibility greater than 20×10^{-6}
emu/g measured at 298 °K.

This invention provides optically responsive devices that employ these
15 transparent, paramagnetic polymers as an element that is responsive to a
magnetic field and a means for providing magnetic field.

This invention provides transparent labels or markings employing these
transparent, paramagnetic polymers.

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